

RAW SEQUENCE LISTING

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Application Serial Number:

10/525,682

Source:

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3-8-05

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DATE: 03/08/2005

PATENT APPLICATION: US/10/525,682

TIME: 10:02:34

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Output Set: N:\CRF4\03082005\J525682.raw

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3 <110> APPLICANT: BASF PLANT SCIENCE GMBH
4     DNA LANDMARKS, INC.
5     LAI, FANG-MING
6     LANDRY, BENOIT S.
8 <120> TITLE OF INVENTION: MALE FERTILITY RESTORATION AS A SELECTABLE MARKER IN
9     PLANT TRANSFORMATION
11 <130> FILE REFERENCE: 16313-0238
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/525,682
C--> 14 <141> CURRENT FILING DATE: 2005-02-23
16 <150> PRIOR APPLICATION NUMBER: 60/405,654
17 <151> PRIOR FILING DATE: 2002-08-23
19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1272
25 <212> TYPE: DNA
26 <213> ORGANISM: Saccharomyces cerevisiae
28 <400> SEQUENCE: 1
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30 gaaaggtttg aaagaccttc aggtgagaaa atagcattat gtgctgctga actaacctat 120
31 ttatgttgga tgattacaca taacggaaca gcaatcaaga gagccacatt catgagctat 180
32 aatactatca taagcaattc gctgagtttc gatattgtca ataaatcact ccagtttaaa 240
33 tacaagacgc aaaaagcaac aattctggaa gcctcattaa agaaattgat tcctgcttgg 300
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41 ccacttgat atttgatga atttttgagg aattctgaac cagtcctaaa acgagtaaat 780
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43 agatcgtaca ataaagcttt gaagaaaaat gcgccttatt caatctttgc tataaaaaat 900
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45 acggagtga ctaatgttgt gggaaatttg agcgataagc gtgcttctgc cgtggccagg 1020
46 acaacgtata ctcacagat aacagcaata cctgatcact acttcgcact agtttctcgg 1080
47 tactatgcat atgatccaat atcaaaggaa atgatagcat tgaaggatga gactaatcca 1140
48 attgaggagt ggcagcatat agaacagcta aagggtagt ctgaaggaa catacgatac 1200
49 cccgcatgga atgggataat atcacaggag gtactagact acctttcatc ctacataaat 1260
50 agacgcatat aa                                     1272
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 1553
55 <212> TYPE: DNA

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56 <213> ORGANISM: Artificial Sequence

58 <220> FEATURE:

59 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
60 nucleotide sequence for Cre recombinase

62 <400> SEQUENCE: 2

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65 accttagcag gtcaaatagt gaccacttga tcatttgatc aaggttgcg c tacgtaaaat 180
66 ctgtgaaaaa ttggcgggtg tagtcctaca gatttcgcgt accacttagc accaccaatc 240
67 aatcagaggt gaaaaatggg atattcaact gctaaagtgt ccactcatct tgagcttgag 300
68 aaaaaccgtg gttactggcg ggcaaaaggg tttgatcgtg atagttgcc a actgtcatta 360
69 tcgcgcggtg aagagaaaaat agaacgcacg cgcggtcgct ggcgtttcta tgacgagaac 420
70 cataaacagg taaaggcaga gccgatcctg tacactttac ttaaaacct tatctgagt 480
71 ttaaatgtcc aatttactga ccgtacacca aaatttgctt gcattaccgg tcgatgcaac 540
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86 ggcccgcgct ggagtttcaa taccggagat catgcaagct ggtggctgga ccaatgtaaa 1440
87 tattgtcatg aacttatcc gtaacctgga tagtgaaaca ggggcaatgg tgcgcctgct 1500
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92 <211> LENGTH: 1818

93 <212> TYPE: DNA

94 <213> ORGANISM: Streptomyces sp.

96 <400> SEQUENCE: 3

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99 gtcgagcgcg acggggggccg gttcagggtt ctcgggcatt tcagcggaagc gccggggcacg 180
100 tcggcggttc ggacggcgga gcgcccggag ttcgaacgca tcctgaacga atgccgcgcc 240
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102 gacgcgattc cgattgtctc ggaattgttc gccctgggag tgacgattgt ttccactcag 360
103 gaaggcgtct tccggcaggg aaacgtcatg gacctgattc acctgattat gcggctcgac 420
104 gcgtcgcaaa agaattcttc gctgaagtgc gcgaagattc tcgacacgaa gaaccttcag 480
105 cgcgaattgg gcgggtacgt cggcggggaa gcgccttacg gcttcgagct tgtttcggag 540
106 acgaaggaga tcacgcgcaa cggccgaatg gtcaatgtcg tcatcaacaa gcttcgcgac 600
107 tcgaccactc cccttaccgg acccttcgag ttcgagcccg acgtaatccg gtgggtggtgg 660
108 cgtgagatca agacgcacaa acaccttccc ttcaagccgg gcagtcaagc cgccattcac 720
109 ccgggcagca tcacgggggt ttgtaagcgc atggacgctg acgccgtgcc gacccggggc 780

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110 gagacgattg ggaagaagac cgcttcaagc gcctgggacc cggcaaccgt tatgcgaatc 840
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112 ggcacgccga ccacgaagat tgagggttac cgcattcagc gcgacccgat cagctccgg 960
113 ccggtcgagc ttgattgcgg accgatcatc gagcccgtcg agtggtatga gcttcaggcg 1020
114 tgggtggacg gcagggggcg cggcaagggg ctttcccggg ggcaagccat tctgtccgcc 1080
115 atggacaagc tgtactgcga gtgtggcgcc gtcactgactt cgaagcgcgg ggaagaatcg 1140
116 atcaaggact cttaccgctg ccgtcgccgg aagggtggtcg acccgccgc acctgggcag 1200
117 cacgaaggca cgtgcaacgt cagcatggcg gcactcgaca agttcgttgc ggaacgcac 1260
118 ttcaacaaga tcaggcacgc cgaaggcgac gaagagacgt tggcgcttct gtgggaagcc 1320
119 gcccgcagct tcggcaagct cactgaggcg cctgagaaga gcggcgaacg ggcgaacctt 1380
120 gttgcggagc gcgccgacgc cctgaacgcc cttgaagagc tgtacgaaga ccgcgcggca 1440
121 ggcgcgtacg acggaccgtg tggcaggaag cacttccgga agcaacaggc agcgtcgacg 1500
122 ctccggcagc aagggcgga agagcggctt gccgaacttg aagcccgcca agcccgaag 1560
123 cttccccttg accaatgggt ccccgaaagc gccgacgctg acccgaccgg ccctaagtcg 1620
124 tgggtggggc gcgcgtcagt agacgacaag cgcggtgttcg tcgggctctt cgtagacaag 1680
125 atcgttgtca cgaagtcgac tacgggcagg gggcagggaa cgcccatcga gaagcgcgct 1740
126 tcgatcacgt gggcgaaagc gccgaccgac gacgacgaag acgacgcccc ggacggcacg 1800
127 gaagacgtag cggcgtag                                     1818
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131 <211> LENGTH: 1473
132 <212> TYPE: DNA
133 <213> ORGANISM: Zygosaccharomyces rouxii
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137 gagcttagtc aaatccttcc cttacaccag atctctaaaa taaaagacat tttggagaat 120
138 gagaaccctt tacctaagga aaaactagcc tcccatctga cgatgataat tttgatggcc 180
139 aatttggcga gtcagaaaag aaaggacgtt cctgtcaagc gctccacttt cttgaaatac 240
140 cagaggtcta tttcaaaaac attgcaatac gattcttcca ctaaacgggt atcctttgaa 300
141 taccatttga aagaccgaag taagctaata aaaggactcg aagatgttgt atcgccctat 360
142 agatttgttg tgggggtaca cgaaaagcct gatgatgtaa tgagtcattt atctgctgta 420
143 catatgagta aggaagcagg tcggaaaaga gatttgggta acaagattaa tgatgaaatc 480
144 actaaaatcg ctgaaacaca ggaaactatt tgggggtttg tcgggaagac tatggactta 540
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153 aattggtctg ccgcgcggga agaagggtgt agccgtgtgg ctaaggctcg atacatgcac 1080
154 acgatagaaa agagtcggcc ttcttattta tttgcgtttc tatcggggtt ttataatatc 1140
155 acagccgaaa gggcgtgtga gttggttgat ccaaatagca acccttgtga acaagacaag 1200
156 aatattccta tgatatcaga tatcgagaca ttgatggctc ggtatggaaa gaatgcagaa 1260
157 ataataccaa tggatgtatt ggttttttgt agcagctatg ccaggttcaa gaataacgaa 1320
158 ggtaaagagt ataagttaca agcaagaagt tcccagggcg tcccagattt tccggcataat 1380
159 gggagaactg cactttataa cgcgttaaca gcggcacatg tgaagcgccg aaagattagc 1440
160 attgtcgtcg gacgatccat cgacacctcc tga                                     1473
163 <210> SEQ ID NO: 5

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164 <211> LENGTH: 582
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
170     nucleotide sequence for Gin recombinase
172 <400> SEQUENCE: 5
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175 gaccgaccgg gattaaaacg cgcttttaaag cgccttcaaa aaggtagacac actggttgtc 180
176 tggaactggg atcgctcggg gcgaagcatg aaacatttga tttctctcgt aggggaatta 240
177 cgagagcgag ggattaattt tcgcagtcctt actgacagta ttgatacgtc atctccaatg 300
178 gggcgttttt tcttccacgt tatgggtgcc ctggctgaaa tggaacgaga actaattatc 360
179 gagcgaacga tggctggact tgctgccgcc agaaataaag gccgtattgg tgggcgacca 420
180 cctaaactaa ccaaagcgga atgggagcag gccgggcgtt tattagcaca aggaatcccc 480
181 cgcaagcagg ttgcattgat ctacgatgtg gccctgtcaa ctctgtataa aaaacacccc 540
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186 <211> LENGTH: 617
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188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
192     nucleotide sequence for Beta-recombinase
194 <400> SEQUENCE: 6
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205 ggaaagaggg atagtta 617

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date